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NØRTEL NORTHERN TELECOM

September 25, 1996

SEP 27 1996

FEDERAL COMMUNICATIONS COMMISSION OFFICE OF CECRETARY

Mr. William Caton **Acting Secretary** Federal Communications Commission 1919 M Street, Room 222 Washington, DC 20554

RE: CC Docket No. 94-102 (E911 Access), Ex Parte File

Dear Sir:

Pursuant to the Commission's rules, please be advised that Erik Hansson, Senior Engineer, Northern Telecom, at the FCC's request, participated in the ex parte discussion held by the Commission on September 19-20 concerning the referenced Commission proceeding. A copy of the presentation that was used as talking points by Mr. Hansson is enclosed for the record.

If you have any questions, please communicate with the undersigned.

Sincerely,

Raymond L. Strassburger

Director, Government Relations

Telecommunications Policy

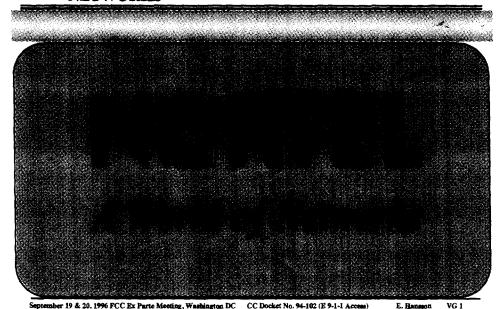
RLS/gi Enclosure

cc: E. Hansson

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Topics Covered in my Discussion

- · Highlights of Nortel's (Northern Telecom) Comments Filed January 9, 1995
- Summary of current PS/PBX State Regulations
- Background Information
 - Overview of PBX E 9-1-1 services access methods
- · Issues of main Concern to Nortel

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Highlights of Nortel's 1/9/95 Comments

- Incommentation of Calest Party Oleoporas, Copies as an electation of Discussion
- · Commission's proposed "Wireless Rules" vs. wireless extensions behind a PBX.
- Standardization of PS/ALI database information and format.
- Modernization of the E 9-1-1 networks and PSAPs to be ISDN compatible.
- Nortel supports uniform, nationwide standards and rules for PBX E 9-1-1 access.
- Nortel recommended that the Commission should utilize a Negotiated Rulemaking Procedure to resolve some of the more complex issues before the Commission in this matter.
- Some of the proposed rules may not be appropriate for inclusion in Part 60 of the Commission's Rules.

September 19 & 20, 1996 FCC Ex Parte Meeting, Washington DC CC Docket No. 94-102 (E 9-1-1 Access)

NERTEL HORTHERN TELECOM

Summary of some State PBX E 9-1-1 Regulations

hearth and and a second and a s	June 30, 95	Date \$1, 39	Sept. 1; 94	Jan 1,97	and the
Business shared multi-tenant	June 30, 96	Dec 31, 93	NO	Jan 1, 97	Pending
Business, not incl. shared multi-tenant	June 30, 96	NO	NO	Under study	Pending
Schools	June 30, 96	Dec 31, 93	Sept 1, 95	Jan 1, 97	Pending
Hospitals	June 30, 96	Dec 31, 93	NO	NO	Pending
installed Dase. all Lyces	June 30, 99	NO	NO.	Jan 1, 67	Pending

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PRIVATE SWITCH/PBX

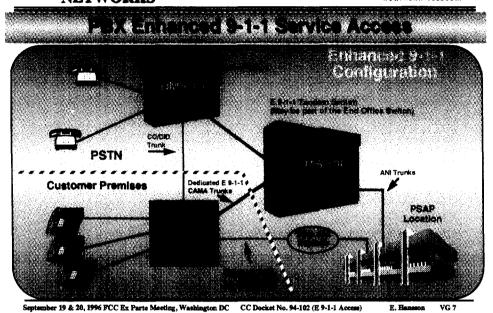
Examples of E 9-1-1 Service Access Methods Applicable to Nortel's Meridian 1 Systems

ientember 19 & 20, 1996 FCC Ex Parte Meeting, Washington DC CC Docket No. 94-102 (E 9-1-1 Access

E. Hansson

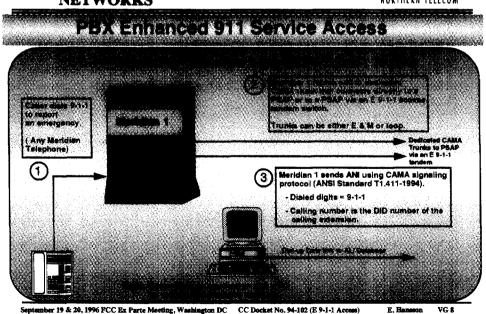
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PBX Enhanced 911 Service Access

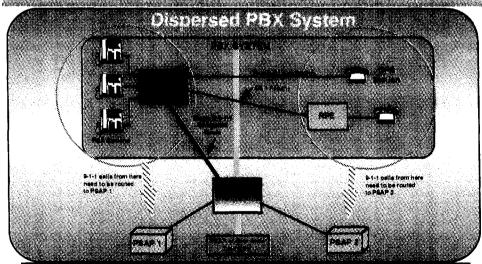
AN issues

- - -Comprised of OPS stations and Remote Peripheral Equipment.
 - Can cause PBX to overlap PSAP jurisdiction and/or area code boundaries.
 - Need to ensure:
 - » Area code or Info digit to be included in ANI.
 - » E 9-1-1 tandem can do selective routing based on ANI.
- The CAMA/MF signaling format has limited information handling capability - ISDN BRI is needed for improved PBX - tandem - PBAP data transfer.

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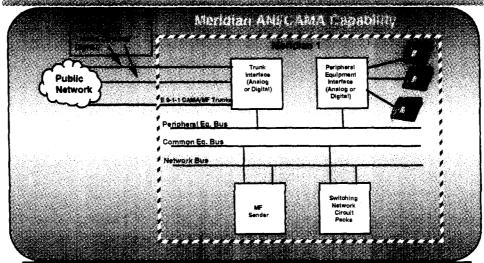
PBX Enhanced 911 Service Access



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PBX Enhanced 911 Service Access



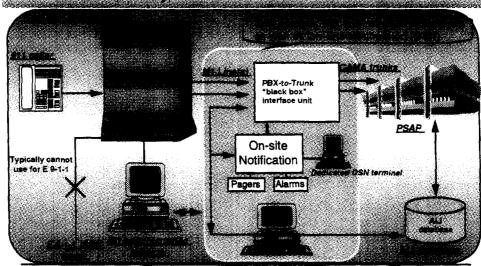
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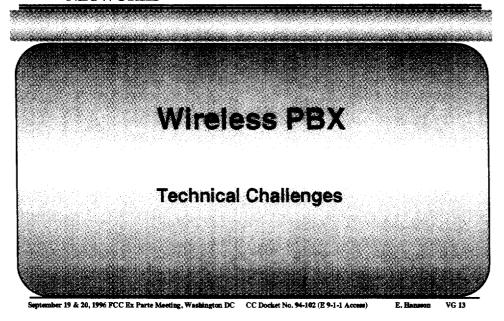
Hardware adjuncts for PBX E 9-1-1 Access



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Wireless PBX - Technical Challenges

PCI Access to E.9-1-1 Services - Challenges

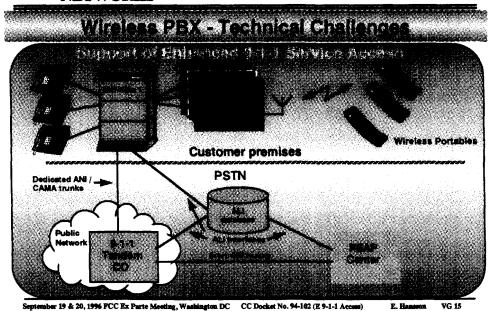
- How to determine where the portable unit is located.
- · Provide/determine callback number.
- How to locate a "Twinned" caller (wired & wireless station have the same extension No.).
- Can system provide base station location to PSAP?
- If caller changes location, base station switching will occur, resulting in incorrect location information.
 - Portable may establish call via a base station on a different floor or building than where caller is located.
- CAMAMO ANI eigneling former limits the expount of information that can be send from \$35000 years amount to 2540

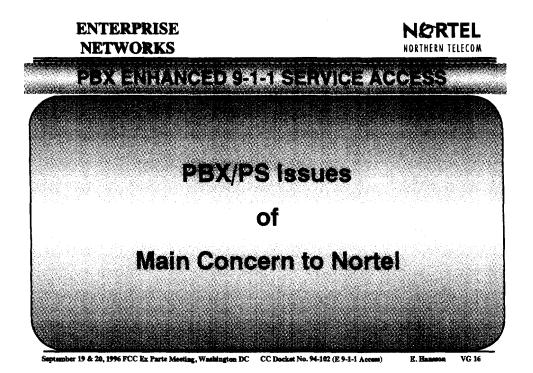
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E. Hansson

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Issues of Main Concern to Nortel

- - in excite the communication of Colorida.

 State Rules very and are different than the proposed FCC Rules.

 Nation wide, uniform Rules are required.
- Lack of uniform PS/ALI database standards
 - LEC requirements vary in format, transmission methods, etc.
- Small vs. large systems issues
 - Some states, such as Illinois, exempt KTS systems in some applications.
 - Cost of providing E 9-1-1 access capabilities in small PBX/KTS systems may make such systems unattractive in some cases
- Wireless PBX issues
 - The Commissions Wireless Rules in Docket 94-102, released July 26, 1996,
 - did not cover wheleas PBX systems explicitly
 The July, 1995 Fulling leaves the question of wheleas PBX Hules

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PBX E 9-1-1 Acronyms and Abbreviations

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PBX E 9-1-1 Acronyms and Abbreviations

- 100	
rcawa Seri	Centralized Amonetic Nessage Abstracting Computer Telephony Imagration
- DS-1	Data Speed 1 (1.344 Mb/s ladikty)
·E 9-1-1	Enhanced 9-1-1 Emergency Service
·ISDN-PRI	Integrated Services Digital Network - Primary Rate
	Interface (1.544 Mb/s)
· ISDN-BRI	Integrated Services Digital Network - Basic Rate
	interface(64 kb/s)
· LEC	Local Exchange Carrier
· MF	Multi-Frequency
· OPS	Off-Premises Station
• PCI	Personal Communications Interface
·P\$	Private Switch (PBX)
· PSAP	Public Safety Anewering Point
. PSIALI	Private Switch Automatic Location Information
-PIPE	Romote Perioderal Scalptoett
- ioridum	

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